

 **RABBIT[®] 286**

**ASSEMBLY
DIRECTIONS**



Serial# C5 8800471



The Chicony's Portable Computers

© Copyright 1988 by Chicony Electronics Co., Ltd.
Rabbit is a registered trademark of Chicony Electronics Co., Ltd.
IBM PC/XT/AT is a registered trademark of International Business Machines Corp.

TABLE OF CONTENTS

ASSEMBLY DIRECTION 2

APPENDIX

PARTS LIST 25-A

ASSEMBLY DRAWING 25-B

ASSEMBLY DIRECTIONS

STEP 1: Before you begin, make sure the shipping carton contains the following items:

- 1) Portable computer case with attached keyboard and display.
- 2) External 5¼" floppy disk drive enclosure.
- 3) Cable's for external 5¼" floppy disk drive.
- 4) AC power cord.
- 5) Padded fabric carrying bag.
- 6) Display controller card.
- 7) A pack of screws.
- 8) User's manual.

Remark: Items 2) to 8) are put together in a paper box.

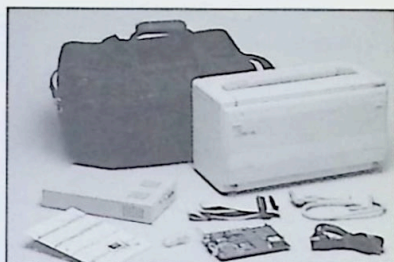
STEP 2: Remove the six screws from the rear panel.

STEP 3: Remove the rear panel.

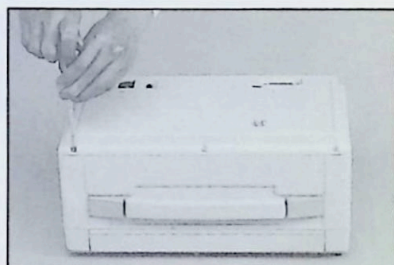
STEP 4: Cut off all the cable ties.

IMPORTANT: Do not disassemble the display panel, or it will void the warranty.

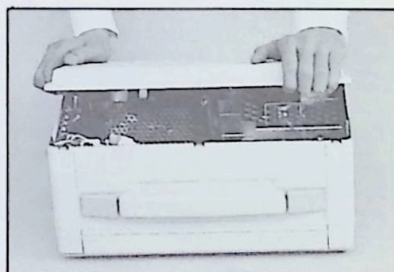
Step 1



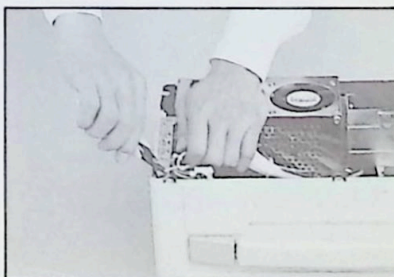
Step 2



Step 3



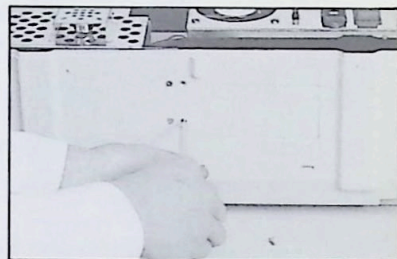
Step 4



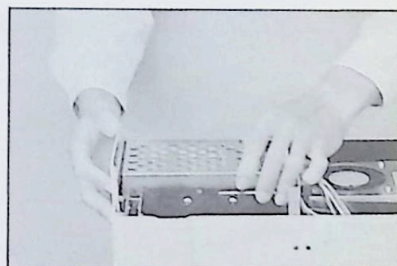
APPENDIX

- STEP 5: Remove the four screws from the bottom of the cabinet.
- STEP 6: By lifting straight up, simultaneously remove the Floppy Disk Drive/Hard Disk Drive (FDD/HDD) fixed metal bracket and plastic drive bezel.
- STEP 7: Remove the screw which holds the power supply assembly and the interface card fixed metal bracket to the computer enclosure.
- STEP 8: Remove the power supply by lifting straight up.

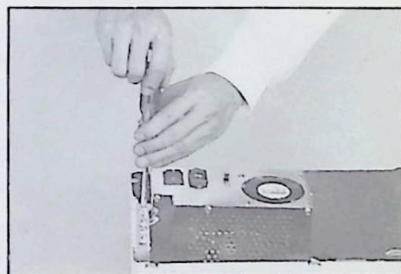
Step 5



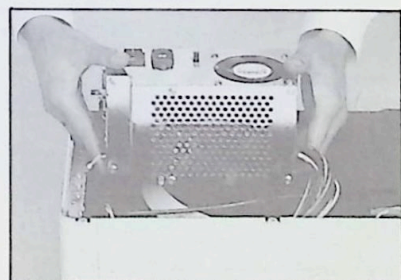
Step 6



Step 7



Step 8



APPENDIX

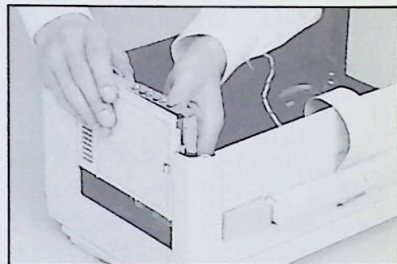
STEP 9: Remove the interface card fixed metal bracket and plastic bezel together as one unit by lifting straight up.

STEP 10: Place the clear plastic insulation plate in the cabinet.

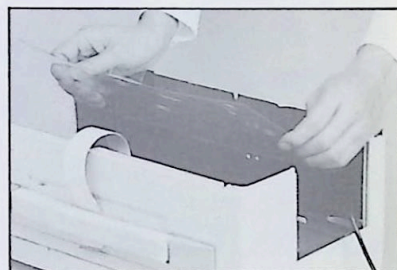
STEP 11: Connect the keyboard adaptor to the motherboard.

STEP 12: Place the motherboard on top of the insulation plate.

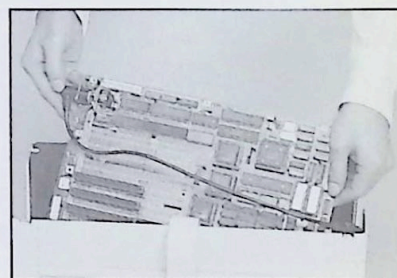
Step 9



Step 10



Step 11



Step 12



APPENDIX

STEP 13: When securing the motherboard to the insulation plate, be sure to use insulation washers to avoid shorting the motherboard.

STEP 14: Secure the motherboard.

STEP 15: Connect the "POWER" and "TURBO" cables from the LED indicator to the motherboard.

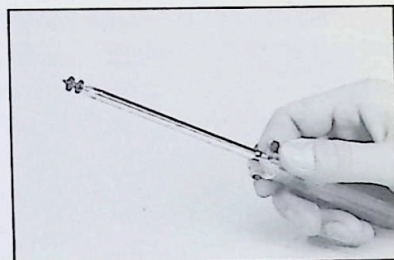
LED Indicator	Connector	Color (High/Low)
Power	4 PIN	Red/Black
Turbo	2 PIN	Orange/Brown
HDD	2 PIN	White/Gray

Connect the hardware turbo switch cable (black) from keyboard adaptor to the turbo/normal switching point on the motherboard.

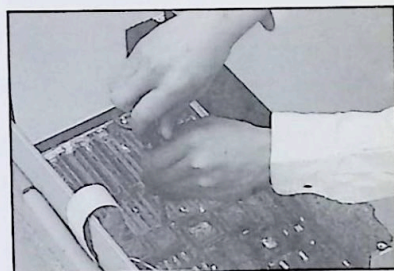
Then connect the speaker connector to the motherboard.

STEP 16: Connect the RS-232C 25 PIN flat cable to the interface fixed metal "COM 2" position.

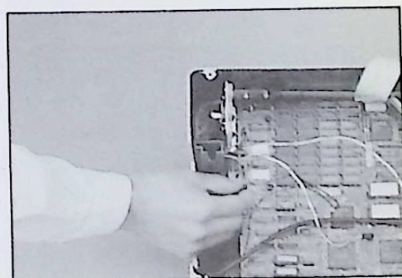
Step 13



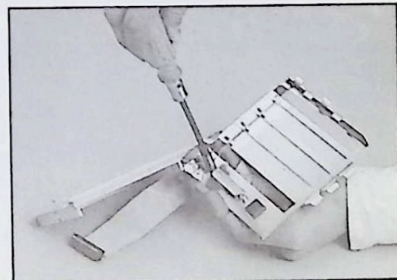
Step 14



Step 15



Step 16



APPENDIX

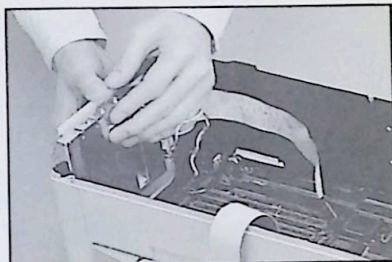
STEP 17: Connect the cable from the reset-switch to the motherboard reset connector. Then, simultaneously install the interface card bracket and plastic bezel.

STEP 18: Connect the cables P8, P9 from the power supply to the motherboard power connector, then install the power assembly.

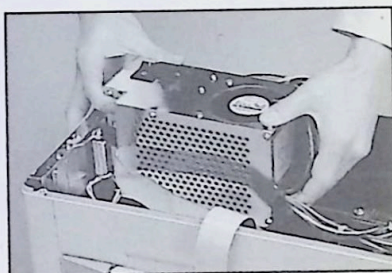
STEP 19: Mount the floppy disk drive to the disk drive mounting cage.

STEP 20: Secure the fixed disk drive to the disk drive mounting cage.

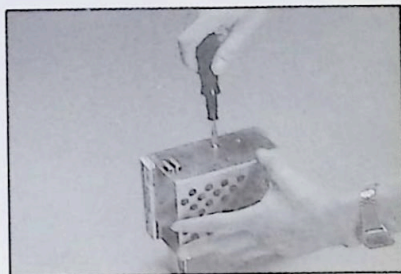
Step 17



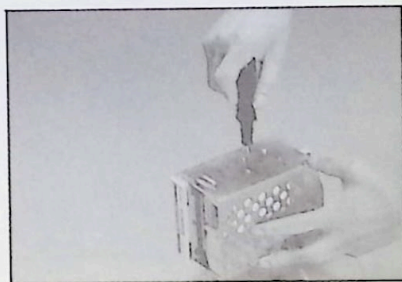
Step 18



Step 19



Step 20



APPENDIX

STEP 21: (Note: This step is for LCD only.)

Connect the 3-PIN connector from the power supply to JP1 (backlight power) on the display controller card.

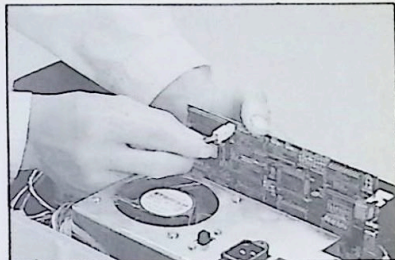
3 PIN POWER CONNECTOR FOR JP1 3-PIN STICK		
1	GROUND	BLACK
2	- 18V	YELLOW
3	AC 110V	RED

STEP 22: Connect the jumper wire from the motherboard color/mono switch to JP4 on the display controller card. Install the display controller card in the slot closest to the power supply.

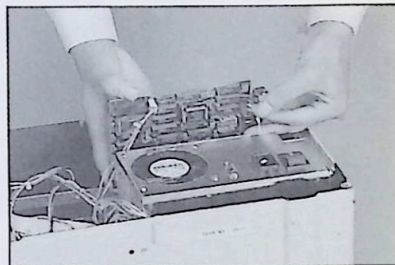
STEP 23: Connect the RS-232 cable from the fixed bracket to the COM2: connector on the I/O card. Install the I/O card in the next open slot.

STEP 24: Connect the 29cm flat cable to the floppy disk drive.

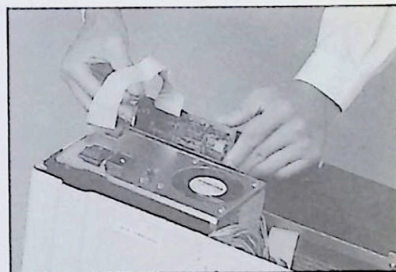
Step 21



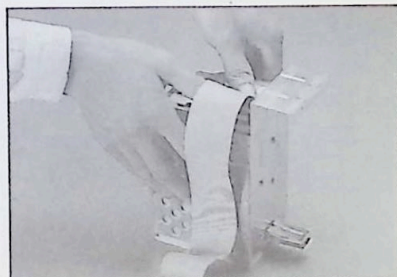
Step 22



Step 23



Step 24



APPENDIX

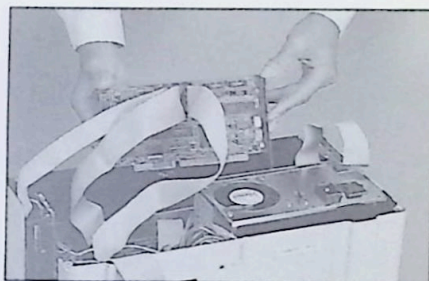
STEP 25: Connect the flat cables (50cm cable included) to the drive controller card.

STEP 26: Connect cables from drive controller card to fixed disk drive.

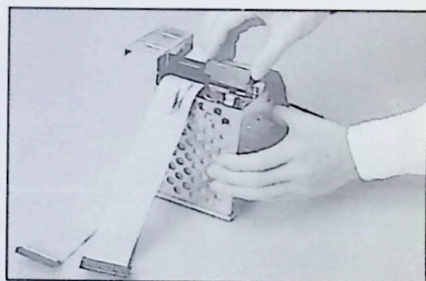
STEP 27: Install the disk drive controller card into the next I/O slot. As the card goes into the slot, adjust the flat ribbon cable coming from the display panel so that it passes underneath the drive controller card.

STEP 28: Connect the power cables to the fixed disk drive.

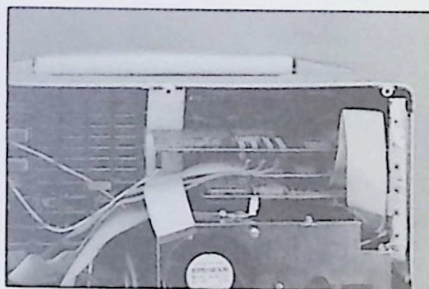
Step 25



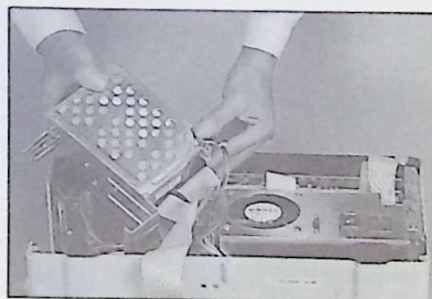
Step 26



Step 27



Step 28



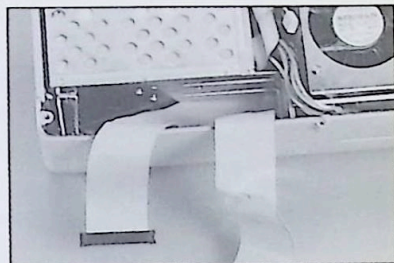
APPENDIX

STEP 29: Hold the disk drive mounting cage together with the plastic faceplate and begin to lower straight down into the enclosure. Before the cage is fully seated, connect the power supply cables to the disk drives. (NOTE: As cage is secured to its position, adjust the cable (50cm) coming from the controller card and the cable (29cm) coming from the floppy disk to pass underneath the disk drive mounting cage.)

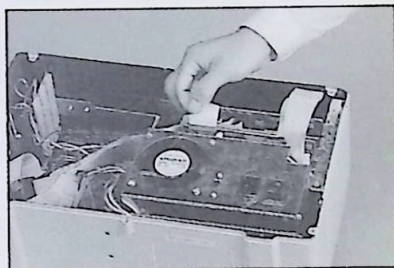
4 PIN POWER CONNECTOR FOR HDD (5¼")/FDD (3½")		
1	+ 12 VDC	YELLOW
2	GND	BLACK
3	GND	BLACK
4	+ 5 VDC	RED

STEP 30: Connect the ribbon cable from the display panel to CN1 on the display controller card. The metal contacts on the ribbon cable go closest to the board and the blue plastic pressure strip faces away from the board.

Step 29



Step 30



APPENDIX

STEP 31: Install hold-down screws for each interface card. This step is often over looked in stationary computers but is an import requirement for a portable computer which is normally subject to more vibration and shock than a stationary computer.

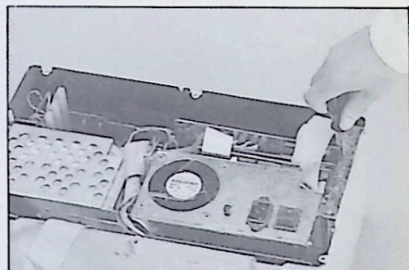
Install the extra screw which fastens the power supply and the fixed metal bracket to the enclosure. This is part of the monocoque construction of the Chicony portable computer. the Chicony portable is made very strong by fastening structural components together, without the need for extra internal framework. Please install all connecting screws for this reason.

STEP 32: (NOTE: This step is for Gas Plasma only)
Connect the 4 PIN power connector and the 4 PIN Gas Plasma connector together.

4 PIN GAS PLASMA CONNECTOR TO POWER SUPPLY (FEMALE)		
1	LOGIC GND	BLACK
2	+ 200V (+ HV)	WHITE
3	+ 5V (NVCC)	GRAY
4	GND (- HV, - NVCC)	PURPLE

4 PIN POWER CONNECTOR TO GAS PLASMA (MALE)		
1	LOGIC GND	BLACK
2	+ 200V (+ HV)	RED
3	+ 5V (NVCC)	WHITE
4	GND (- HV, - NVCC)	YELLOW

Step 31



Step 32



STEP 33: Install the four screws through the bottom of the enclosure to secure the disk drive mounting cage and the power supply to the enclosure. Secure the drive cage first, then the power supply second.

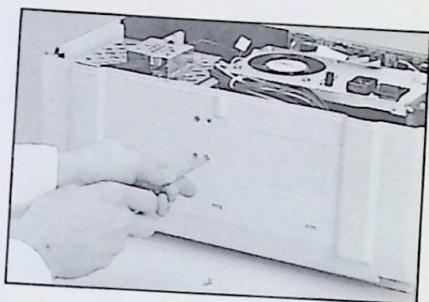
NOTE: These four screws are part of the monocoque construction of the Chicony portable computer. The Chicony portable is made very strong by fastening structural components together, without the need for extra internal framework. Please install all connectign screws for this reason.

STEP 34: Connect the cables from the disk controller card (50cm cable) to the back panel edge card connector (FG1), and from the other edge card connector (29cm cable) to another edge card connector (FG2) on the back panel. Then, connect the 4-PIN connector from power supply to the 4-PIN power connector coming from the back panel.

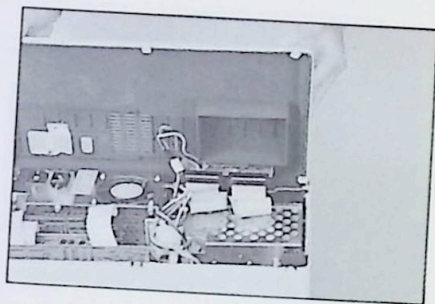
4 PIN POWER CONNECTOR		
1	+ 5V	RED
2	GND	BLACK
3	GND	BLACK
4	+ 12V	YELLOW

APPENDIX

Step 33



Step 34



APPENDIX

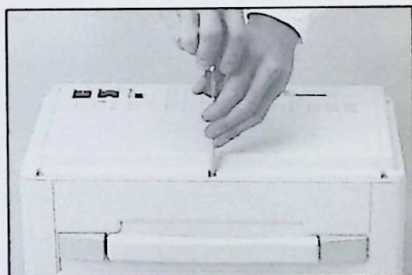
STEP 35: Place the rear panel into position

STEP 36: secure with six screws.

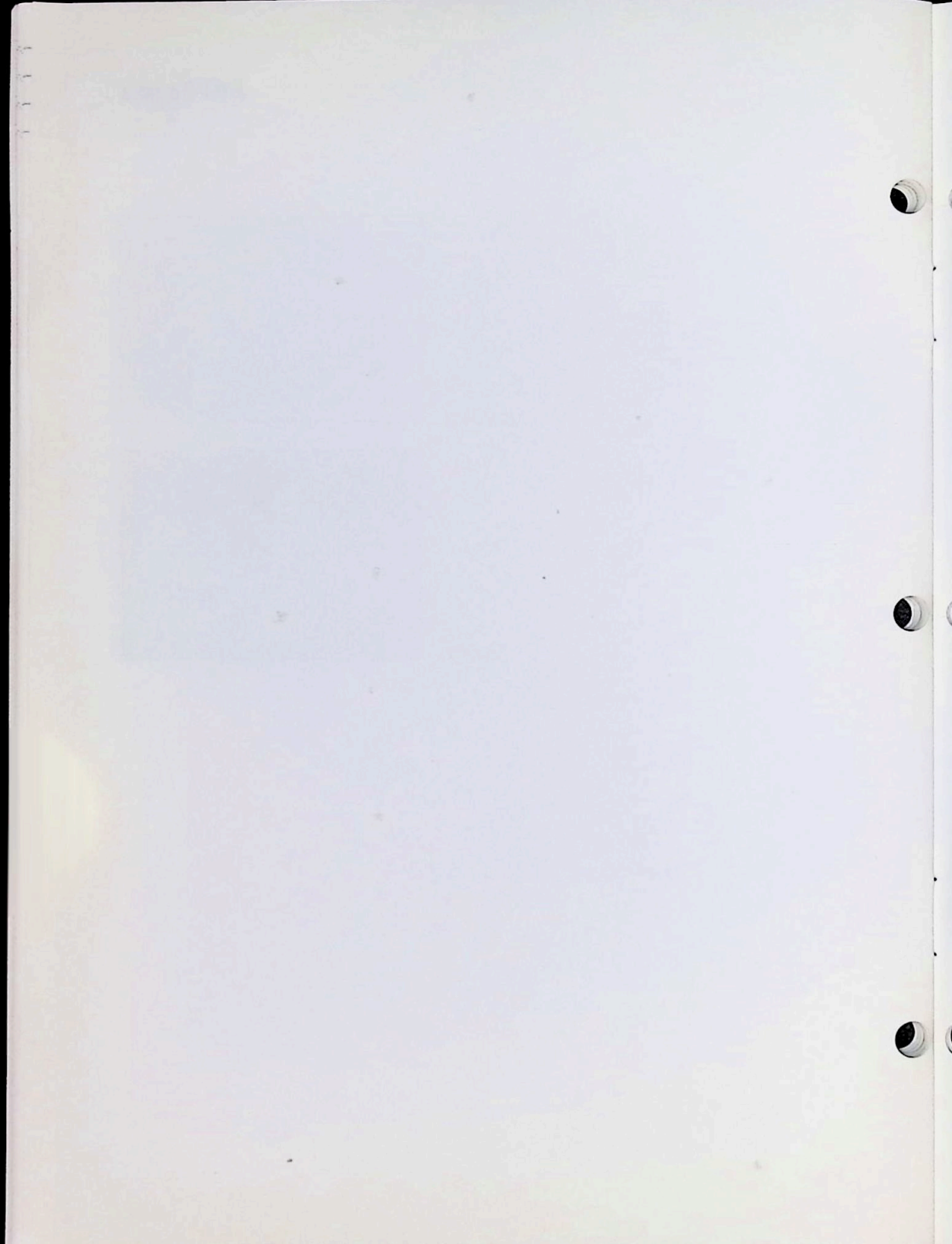
Assembly is now complete. You may now find attached user's manual and read Section two & three to set up and initialize your new Chicony portable computer.



Step 35



Step 36





Chicony Electronics Co., Ltd.

7Fl, No 35, Kuang Fu S Rd
Taipei 10552 Taiwan R.O.C.
Tel: 886-2 764-7277 (REP.)
Fax: 886-2 761-7237
Telex: 14465 Chicony

Chicony America Inc.

(Western Regional Office)
1641 W. Collins Ave. Orange, CA. 92667 U.S.A.
Tel: (714) 771-6151 / 53
Fax: (714) 771-3246

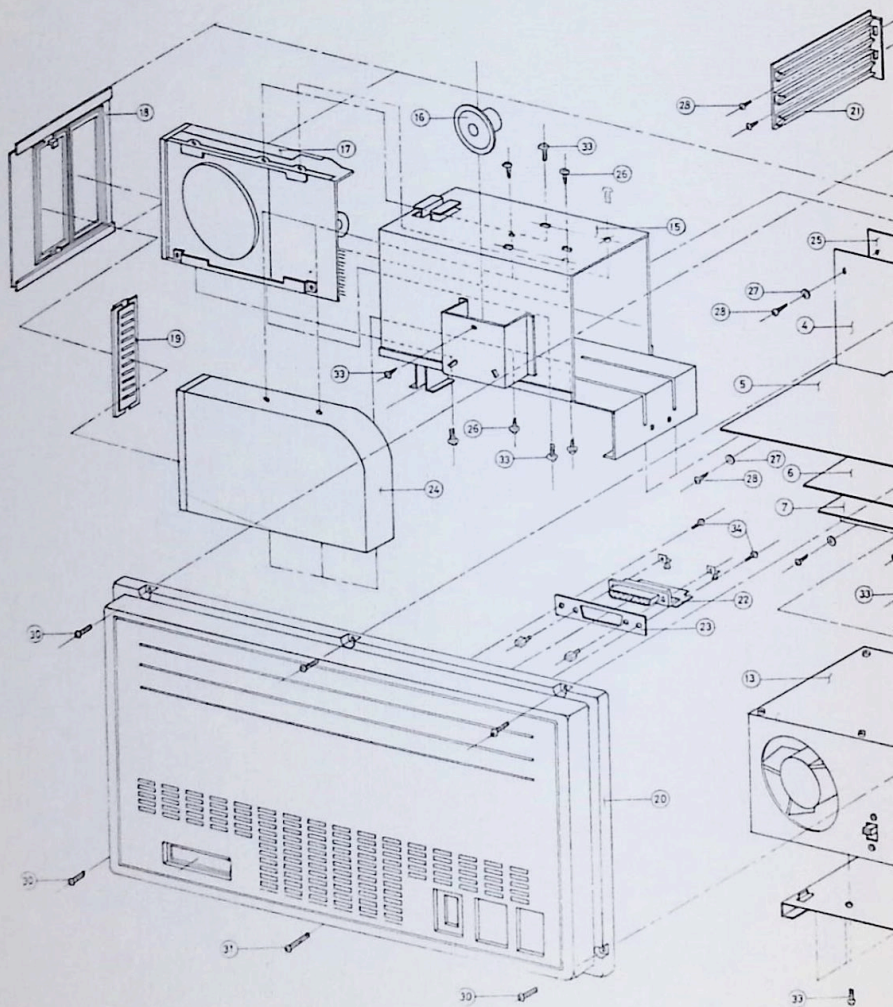
(Eastern Regional Office)
1637 Stelton Rd., Suite 6 Piscataway, NJ 08854
U.S.A.
Tel: (201) 819-8300
Fax: (201) 819-8303

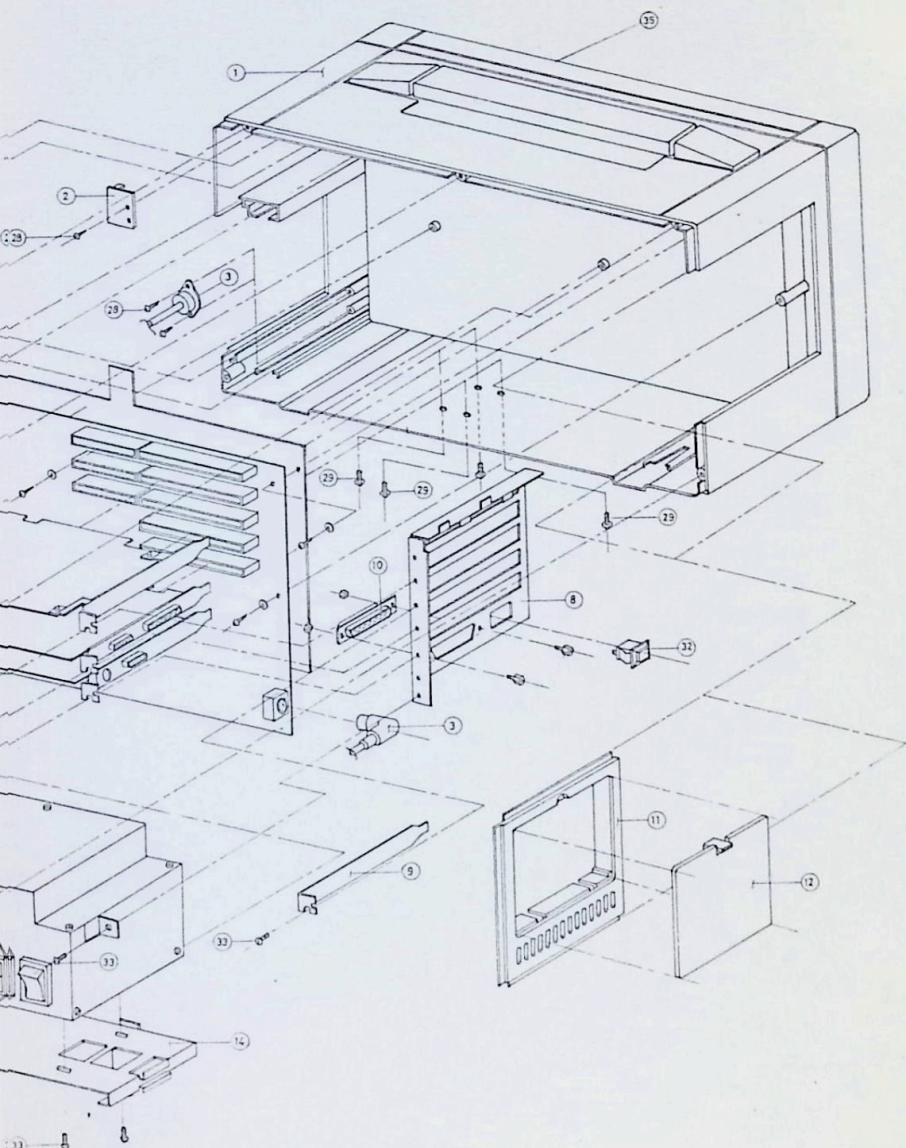
CHICONY Electronics GmbH

Haus 8, I. Stock, Borsteler Chaussee 85-99a
2000 Hamburg 61, West Germany
Tel: 49-(40) 512115-512930
Fax: 49-(40) 512932
Telex: 212841 chico d

Parts List:

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
1	SPA-00001	Cabinet	1	
2	SPA-00006	LED indicator	1	
3	ECW-00005	Key board adapter	1	
4	SPA-00007	Main P.C. board	1	
5	SPA-00008	FDD/HDD controller card	1	
6	SPA-00009	I/O card	1	
7	SPA-00010	Display card	1	
8	CPS-76011	Interface card fixed metal	1	
9	CPS-76018	Interface card plate	2	
10	ECW-00011	25 Pin connector & cable	1	
11	CPP-76019	Side turner grill	1	
12	CPP-76020	Grill cover	1	
13	EPS-00001	Switching power ass'y	1	LCD
	EPS-00005	Switching power ass'y	1	Gas Plasma
14	CPS-76009	S.P.S. fixed metal	1	
15	CPS-76010	FDD/HDD fixed metal bracket	1	
16	ESK-00001	Speaker 1/8W 45 ϕ	1	
17	EPD-30001	3 1/2" FDD	1	
18	CPP-76007	Drive grill	1	
19	CPP-76008	FDD grill	1	
20	SPA-00012	Rear panel	1	
21	SPA-00003	Interface card guider	1	
22	SPA-00020	Ext 5 1/4" FDD adapter	1	
23	CPS-76014	Ext 5 1/4" fixed metal	1	
24	EHD-30001	HDD 3 1/2" 20M	1	
25	CPN-76006	Insulation plate for main PCB	1	
26	XPC-06323	Screw 6-32 UNC	4	HDD
27	XWI-32085	Insulation washer	6	
28	XUI-35102	Screw 3.5 x 10 TAPI	11	
29	XFS-03083	Screw 3 x 8 P0.5	4	
30	XPS-04103	Screw 4 x 10 P0.7	5	
31	XP4-04203	Screw 4 x 20 TAP	1	
32	ESW-01001	Reset SW RIB-27A	1	
33	XPW-03063	Screw 3 x 6 P0.5	14	
34	XP4-03083	Screw 3 x 8 TAP	2	
35	SPB-04011	LCD Assembly	1	
	SPA-00021	Gas Plasma Assembly	1	





ASSEMBLY DRAWING

